



State of Illinois
ENVIRONMENTAL PROTECTION AGENCY
MEMORANDUM

DATE: November 8, 2010
TO: Division Files - Bureau of Land
FROM: Chris Cahnovsky – Collinsville Region
SUBJECT: 1198010003 – Madison County
Estate of Chemetco
FOS File

On November 3, 2010, Michelle Cozadd and I conducted an inspection at Chemetco, Inc. Present during this inspection were Jorge Garcia, ES&H Manager for the Estate of Chemetco, Duane McVey from the Estate and Mike Murray of AIS.

DOMES BUILDING

Stainless steel continues to be brought to the Dome Building. No blasting has taken place yet.

FINES BUILDING

The tarp on the Fines Building was closed. The pile of concrete and debris is still in the Fines Building. AIS has sampled the debris. I was told that David Herrera had the results.

FOUNDRY BUILDING

On March 27, 2008 the Estate of Chemetco submitted a work plan for the removal and sale of pot slag and furnace cleanup solids. This work plan was approved by the Illinois EPA. The Estate revised this work plan on January 21, 2010 with a final revision on February 8, 2010. The Illinois EPA approved the revisions. The work plan was for the sale of about 150 metric tons of pot slag and furnace clean up solids to Kataman. Kataman contracted with Environmental Management Alternative to load the material for overseas shipment to Aurubis AS in Lønen, Germany. The loading started around October 25, 2010 and ended October 29, 2010. Fourteen loads, totaling about 280 tons, were shipped.

Mixed in with the loads of pot slag and furnace clean up solids were about 70 drums of metal bearing material that were in the Foundry Building. These drums consisted on brass skimming, tin mud, copper paste, brass grindings and copper fines. Attached is a list of lots that are in the Foundry. The following lots on that list were mixed with the pot slag and shipped off-site: P7B-G269, P7B/769, P7B-G930, P9/I039, P10-I918 and P10-I919. The drums were emptied onto a pile of pot slag or foundry clean up solids on the foundry floor. The mixture was then loaded into a container. The mixing of the drums with the pot slag and foundry clean up solids was not in any of the submitted work plans. Per Mr. McVey the material in the drums is the same type of material that would make up the foundry clean up solids.

TEMPORARY WASTE DRUM STORAGE BUILDING

Per Mr. Garcia 15 drums that were in this building have been moved to the Tank House. These drums have been lab packed with the material AIS collected from the Tank House demolition. The drums moved contained aerosol cans, paint cans, oil, grease and unknown liquids. Mr. Garcia provided me with an inventory of the waste that was moved (attached).

TANK HOUSE

In the Tank House I observed that the miscellaneous chemical containers collected from the Tank House have been combined into lab packs. I observed about 28 containers of waste. AIS is currently in the process of profiling the waste with Heritage Environmental. Next to the lab packed drums I observed three rows of 55-gallon drums. Each row contained about eleven drums. The first two rows contained grease and the third row contained oils. Per Mr. Garcia, the Estate is looking for a company to recycle or dispose of the oil and grease.

AAF DEMOLITION

AIS has begun the demolition of the AAF area. Demolition of the area at the corner of the Tank House and Foundry Small has been nearly complete. The scrap is being cut into five foot sections to meet the recycler's specification. The stainless steel is being stockpiled prior to being moved to the Dome Building for decon. The other steel is being directly sent to Grossman Metals. To date nine (9) RCRA boxes have been filled with hazardous waste. The oldest box is dated November 23, 2010. These boxes have been profiled to go to Heritage.

CNC

cc: Regional Files
cc: Erin Rednour
cc: Michelle Kerr - USEPA

	Lot #	Supplier	Description	Weight	# of drums	Comments	% Cu	% Pb	% Sn	% Ni	% Fe	% Zn	% Sb	% Al	% Au	% Ag
P3	E564	Alpha Omega	tin mud-sn/cu cake	10,622	20	Inventory assay Spectroscopy gun	2.84 22	1.52	4.81 60	0.14	0.78	2.89	0.01	0.13		
P4	E566	Alpha Omega	low gr. Cu cement	742	2 drums	never assayed	25									
P12	E800	Cme Chicago W/H ***Marsco Manufacturing	tin mud	17,506	64	Inventory assay Spectroscopy gun	0.06	0.1	2.26 98		0.06	0.01		0.2		0.001
P6	F327	Halpern Bros.	high grade cu dust	24,476	32 drums		26.34	0.03	0.04		0.16	0.09	0.01	32.67		
P7B	G269	Cme Newark W/H, ****Acu Powder Intl.	br. Sloms	711	1	dunnage 120 lbs.	69.24	0.11	0.65		0.05	16.78	0.03	0.06		0.005
P7B	G769	Cme Chicago W/H, ****Marsco Manufacturing	tin mud	17602	6		0.81	0.01	4.14		0.15			0.26		
P7B	G930	Cme LA W/H, ****Valley Brass	br. Grinds	1315	3	dunnage 60 lbs.	43.63									
P1	H152	Reflective Recycling	tin fines	19,072	36		0.06	0.22	10.48	0.02	13.55	0.07		0.02		
P1	H153	Reflective Recycling	Tin dross	15,098	24		0.04	0.07	5.08	0.01	10.74	0.02				0.026
P12	H440	Per Scholas, Inc.	lead glass	1,380	2-55 gal dr.		1	22								
P8	I038	Cme Cleveland W/H, ***Fusion Inc.	solder dross	1,621	3 drums		68.45	1.04	4.52		0.68	2.75	0.02	0.31		0.034
P9	I039	Cme Cleveland W/H, ***Fusion Inc.	copper paste	1952	2	160 lbs. tare	79.55	0.11	0.68		1.12	0.02		0.04		
P2	I283	Cardinal Stabilizers	tin mud, b/l states ditch sludge, tin solids, non-haz, non-reg	21,700	12 totes		0	1.5			0.79		0.01	0.04		
P8	I314	Cme Boston W/H, ****Max Metals	solder dross	856	1 dr.		0.15	32.13	61.34							
P5	I666	Butler MacDonald	irony copper, shred boards????	16605		725 lbs. tare	8.17	0.94	1.16	0.46	25.33	1.36	0.04	0.69	0.003	0.022
P9	I764	????? - Do not have a lot # like that on inventory														
P10	I816	Toronto W/H	heavy connectors	253	1 dr.		14	0.5	2.5	0.25					0.017	0.103
P9	I898	Cme Detroit ***Visteon	brass grinds salt size	4905	16 drums		31.3	0.14	0.19		4.01	0.07	0.01	1.93		
P10	I918	Ford Meter Box	cu fines they call it slag	6,359	5-55 gal. dr.		25.78	2	0.77	0.12	1.41	16.18	0.03	0.19		0.093
P10	I919	Ford Meter Box	cu fines, they called it residues, #2 dust, R Metal and Type B	20309	26-55 gal. dr.		24.38	2.77	1.97	0.06	0.41	3.91	0.02	0.2		
P8	I980	Southwestern Fdy	cu fines they called it fdy sand	18033	19 bbls/2bx	Never assayed Spectroscopy gun	1 38	16	10		0.7	17				
P9	J005/ 006	Cme Charlotte W/H ****Federal Mogul	tin fines 2 lots of tin oxides	7,190		Never assayed	1	0	50							
			J005 and J006 showed	21 drums for the 2 lots		Spectroscopy gun	10	27	35	0.05	11.4					

*****4 unknown lots

contents of highlighted cells were added to sold pot slag/furnace dust material.

highlighted drums were taken to the Tank House, properly cataloged, and packaged. Waiting for disposal.

Temp Drum Storage Area

Number of Drums	Drum Type/Size	Lot #	Contents	Media	Comments
16	steel/55 gal	H152	Tin Dross	solids	low level Tin originally purchased by ECS, material to be used as process material
2	steel/55 gal	NA	Misc. aerosol cans	solids	labeled "Aerosol Cans"
2	steel/55 gal	NA	clear oily liquid	liquid	partial "Corrosive" label Caustic Soda, unable to open top slightly rusted, oily top, one drum ~ 60% full, and other ~ 5% full (nearly empty)
1	steel/55 gal	NA	Misc. aerosol cans	liquid	slightly rusted top, organic odor
2	plastic/55 gal	NA	unknown white liquid	liquid	One drum contains "corrosive label" pH of 1
3	steel/55 gal	NA	unknown	liquid	slightly rusted, one drum labeled "used oil", other 2 drums have rusted top, unable to open.
1	plastic/55 gal	NA	empty		Marked "Frames/ Cu only"
2	plastic/55 gal	NA	unknown, yellowish liquid	liquid	Blue plastic drums, one full, other partially full, one drum under pressure and the other contained some vapors. pH of 1
2	steel/30 gal	NA	Grease	solids	Red Gear Grease
1	steel/30 gal	NA	lead Batteries	solids	Drum contains 4 batteries, additional battery located on pallet material used for binding refractory material (drum/label dated 10-05-01). Drums brought from Tank house Area.
1	steel/55 gal	NA	Binder (Magneco-Matrel)	solids	material used for binding refractory material (drum/label dated 04-27-01). Drums brought from Tank house Area.
2	steel/55 gal	NA	Binder (Magneco-Matrel)	solids	Material used for binding refractory material. Drums brought from Tank house Area.
1	steel/55 gal	NA	Nalco 1142- Colloidal Silica	solids	Open top drum contain copper coated plastic strips (circuitry board remnants material)
1	steel/55 gal	NA	Copper coated plastic strips	solids	Materials to be placed in over pack 55 gal drums for disposal.
1	pallet		Very Rusty Paint cans, aerosol cans, pressure cans		Will included with other like material from Tank House for proper disposal.
2	pallets		Super Sacks		2 pallets of Super-Sacks, Super sacks to be moved to receiving building
1			Super Sacks		1 metal container full of Super Sacks. Super sacks to be moved to receiving building
2			scales		2 metal weight scales

Temp Drum Storage Area

Number of Drums	Drum Type/Size	Lot #	Contents	Media	Comments
16	steel/55 gal	H152	Tin Dross	solids	low level Tin originally purchased by ECS, material to be used as process material
2	steel/55 gal	NA	Misc. aerosol cans	solids	labeled "Aerosol Cans"
2	steel/55 gal	NA	unknown	liquid	partial "Corrosive" label Caustic Soda, unable to open top slightly rusted, oily top, one drum ~ 60% full, and other ~ 5% full (nearly empty).
2	steel/55 gal	NA	clear oily liquid	liquid	slightly rusted top, organic odor
1	steel/55 gal	NA	Misc. aerosol cans	liquid	One drum contains "corrosive label"
2	plastic/55 gal	NA	unknown white liquid	liquid	slightly rusted, one drum labeled "used oil", other 2 drums have rusted top, unable to open.
3	steel/55 gal	NA	unknown	liquid	Marked "Frames/ Cu only"
1	plastic/55 gal	NA	empty		Blue plastic drums, one full, other partially full, one drum under pressure and the other contained some vapors
2	plastic/55 gal	NA	unknown, yellowish liquid	liquid	Red Gear Grease
2	steel/30 gal	NA	Grease	solids	Drum contains 4 batteries, additional battery located on pallet material used for binding refractory material (drum/label dated 10-05-01). Drums brought from Tank house Area.
1	steel/30 gal	NA	lead Batteries	solids	material used for binding refractory material (drum/label dated 04-27-01). Drums brought from Tank house Area.
1	steel/55 gal	NA	Binder (Magneco-Matrel)	solids	Material used for binding refractory material. Drums brought from Tank house Area.
2	steel/55 gal	NA	Binder (Magneco-Matrel)	solids	Open top drum contain copper coated plastic strips (circuitry board remnants material)
1	steel/55 gal	NA	Nalco 1142- Colloidal Silica	solids	Materials to be placed in over pack 55 gal drums for disposal.
1	steel/55 gal	NA	Copper coated plastic strips	solids	Will included with other like material from Tank House for proper disposal.
1	pallet		Very Rusty Paint cans, aerosol cans, pressure cans		2 pallets of Super-Sacks, Super sacks to be moved to receiving building
2	pallets		Super Sacks		1 metal container full of Super Sacks. Super sacks to be moved to receiving building
1			Super Sacks		2 metal weight scales
2			scales		

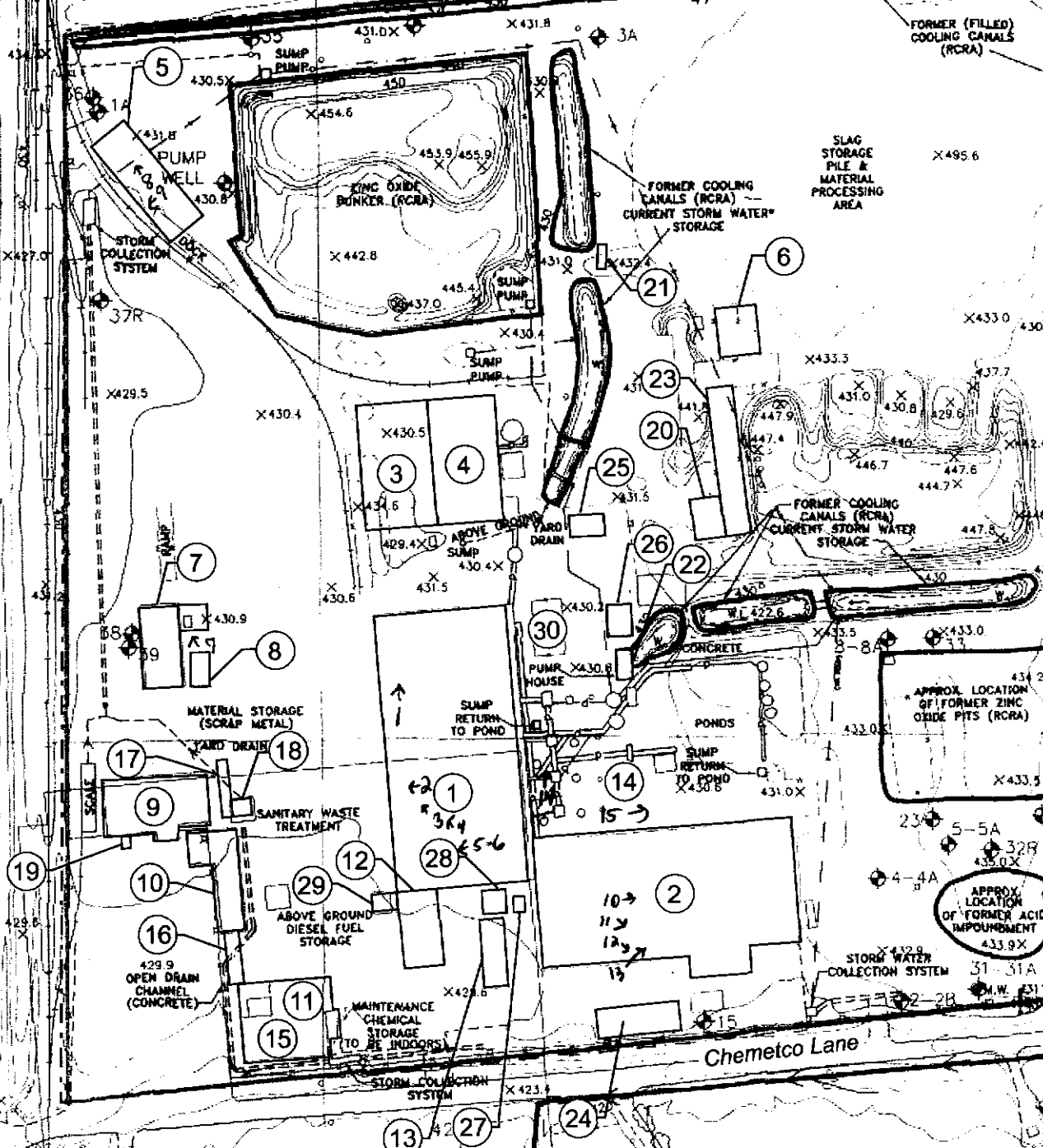
Chemetco Scrap Inventory as of Aug. 2010.xls

	Lot #	Supplier	Description	Weight	# of drums	Comments	% Cu	% Pb	% Sn	% Ni	% Fe	% Zn	% Sb	% Al	% Au	% Ag
P3	E564	Alpha Omega	tin mud-sn/cu cake	10,622	20	Inventory assay Spectroscopy gun	2.84 22	1.52	4.81 60	0.14	0.78	2.89	0.01	0.13		
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P12	E800	Cme Chicago W/H ***Marsco Manufacturing	tin mud	17,506	64	Inventory assay Spectroscopy gun	0.05	0.1	2.26 98		0.06	0.01		0.2		0.061
P6	F327	Halpern Bros.	high grade cu dust	24,476	32 drums		26.34	0.03	0.04		0.16	0.09	0.01	32.67		
P7B	G269	Cme Newark W/H, ****Acu Powder Intl.	br. Skims	711	?	dunnage 120 lbs.	69.24	0.11	0.65		0.08	16.79	0.03	0.05		0.065
P7B	G769	Cme Chicago W/H, ****Marsco Manufacturing	tin mud	17602	68		0.01	0.01	4.14		0.15			0.26		
P7B	G830	Cme LA W/H, ****Valley Brass	br. Grinds	1315	?	dunnage 80 lbs.	43.83									
P1	H152	Reflective Recycling	tin fines	19,072	36		0.06	0.22	10.48	0.02	13.55	0.07		0.02		
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P8	I038	Cme Cleveland W/H, ***Fusion Inc.	solder dross	1,621	3 drums		58.46	1.04	4.82		0.68	2.75	0.02	0.31		0.034
P9	I039	Cme Cleveland W/H, ***Fusion Inc.	copper paste	1962		160 lbs. tare	79.58	0.11	0.08		1.12	0.02		0.04		
P2	I283	Cardinal Stabilizers	tin mud, b/l states ditch sludge, tin solids, non-haz, non-reg	21,700	12 totes		0	1.5			0.79		0.01	0.04		
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P8	I980	Southwestern Fdy	cu fines they called it fdy sand	18033	19 bbls/2bx	Never assayed Spectroscopy gun	1 38	16	10		0.7	17				
P9	J005/ 006	Cme Charlotte W/H ****Federal Mogul	tin fines 2 lots of tin oxides	7,190		Never assayed	1	0	50							
			J005 and J006 showed	21 drums for the 2 lots		Spectroscopy gun	10	27	35	0.05	11.4					

****4 unknown lots

Highway 3

Chemetco Lane



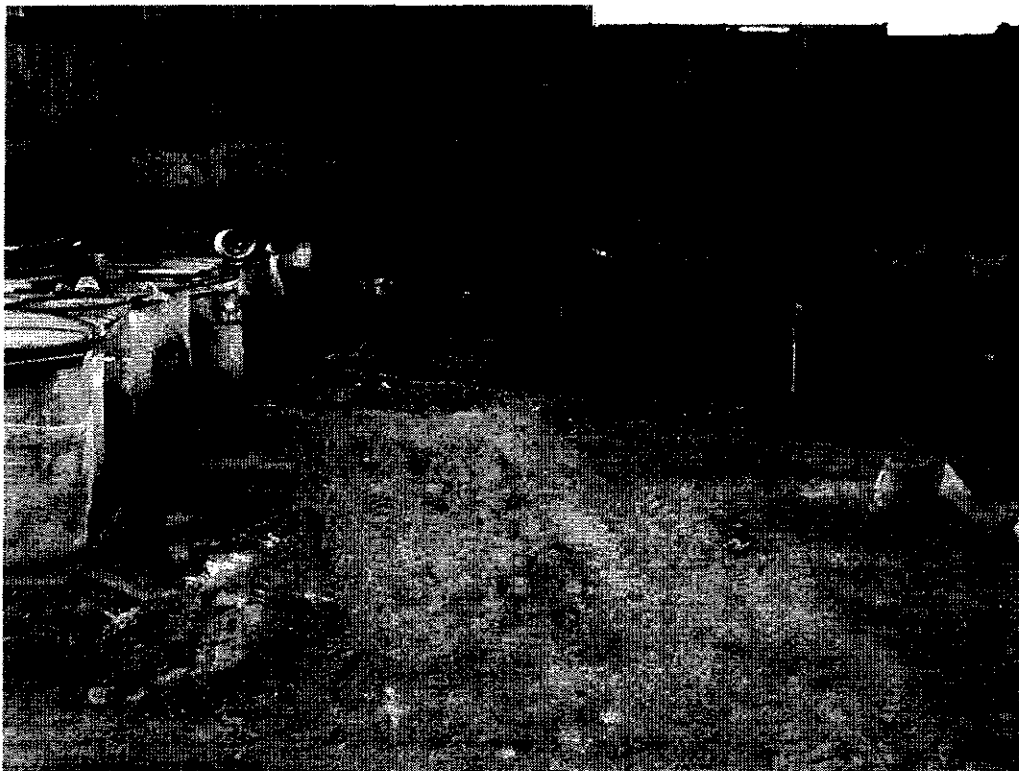
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2000/06/06 14:34
plotting



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: North
Photo by: Chris
Cahnovsky
Exposure #: 001
Comments: Area where
pot slag was
removed.



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: West
Photo by: Chris
Cahnovsky
Exposure #: 002
Comments: Row P7
mixed with pot slag
for sale.



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Northwest
Photo by: Chris
Cahnovsky
Exposure #: 003
Comments: Remaining
drums of metal
bearing material in
foundry



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Northwest
Photo by: Chris
Cahnovsky
Exposure #: 004
Comments: Remaining
drums of metal
bearing material in
foundry



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: West
Photo by: Chris
Cahnovsky
Exposure #: 005
Comments: Empty
drums that once
contained material
mixed with pot slag.
Also are on foundry
floor where drums
were dumped and
mixed with pot slag



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: West
Photo by: Chris
Cahnovsky
Exposure #: 006
Comments: Empty
drums that once
contained material
mixed with pot slag.



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Northwest
Photo by: Chris
Cahnovsky
Exposure #: 007
Comments: Decon
water and PPE
generated from pot
slag removal.



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Northwest
Photo by: Chris
Cahnovsky
Exposure #: 008
Comments: Fines
Building



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Southwest
Photo by: Chris
Cahnovsky
Exposure #: 009
Comments: Concrete in
Fines Building



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: East
Photo by: Chris
Cahnovsky
Exposure #: 010
Comments: Lab packed
waste



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Southeast
Photo by: Chris
Cahnovsky
Exposure #: 011
Comments: Lab packed
waste



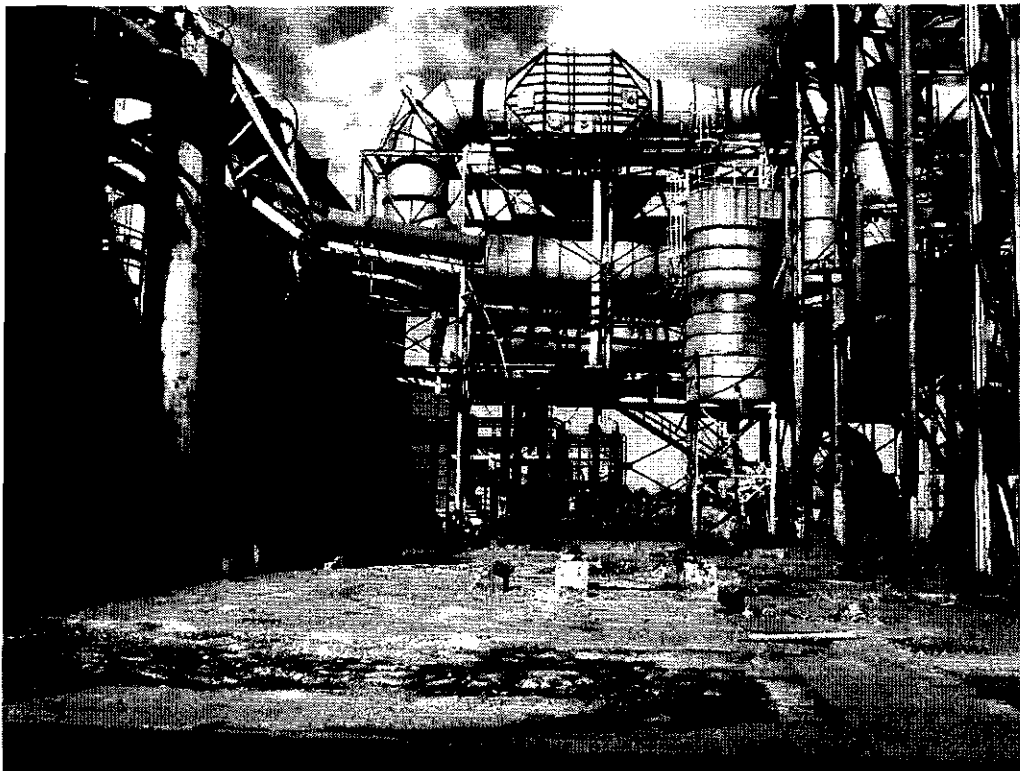
Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Southeast
Photo by: Chris
Cahnovsky
Exposure #: 012
Comments: Roll of
grease drum
collected around
facility



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



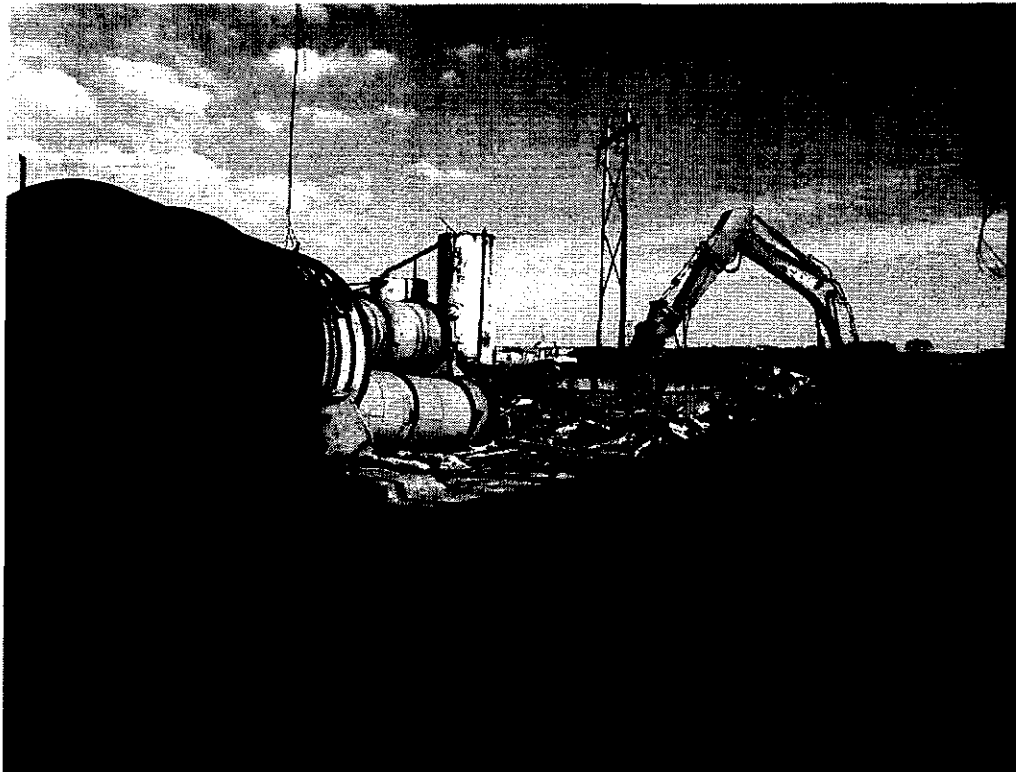
Date: 11/03/2010
Time: 12:50 – 2:30
Direction: Northwest
Photo by: Chris
Cahnovsky
Exposure #: 013
Comments: Drums of
oil collected around
facility



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: North
Photo by: Chris
Cahnovsky
Exposure #: 014
Comments: AAF area



DIGITAL PHOTOGRAPHS File Names: 1198010003 ~ 1032010-[Exp. #001-015.jpg]



Date: 11/03/2010
Time: 12:50 – 2:30
Direction: East
Photo by: Chris
Cahnovsky
Exposure #: 015
Comments: AAF area